

AAGCTCAGAT	CTACCTGCCT	GAGGGCGTCC	GGTTCCAGCT	GGCCCTTCCC	GAGGGGGAGA	60
GGGAGGCGTT	TCTAAAAGCC	CTTCAGGACG	CTACCCGGGG	GCGGGTGGTG	GAAGGGTAAC	120
ATG AGG GGG ATG CTG CCC CTC TTT GAG CCC AAG GGC CGG GTC CTC CTG Met Arg Gly Met Leu Pro Leu Phe Glu Pro Lys Gly Arg Val Leu Leu	168					
GTG GAC GGC CAC CAC CTG GCC TAC CGC ACC TTC CAC GCC CTG AAG GGC Val Asp Gly His His Leu Ala Tyr Arg Thr Phe His Ala Leu Lys Gly	216					
CTC ACC ACC AGC CGG GGG GAG CCG GTG CAG GCG GTC TAC GGC TTC GCC Leu Thr Thr Ser Arg Gly Glu Pro Val Gln Ala Val Tyr Gly Phe Ala	264					
AAG AGC CTC CTC AAG GCC CTC AAG GAG GAC GGG GAC GCG GTG ATC GTG Lys Ser Leu Leu Lys Ala Leu Lys Glu Asp Gly Asp Ala Val Ile Val	312					
GTC TTT GAC GCC AAG GCC CCC TCC TTC CGC CAC GAG GCC TAC GGG GGG Val Phe Asp Ala Lys Ala Pro Ser Phe Arg His Glu Ala Tyr Gly Gly	360					
TAC AAG GCG GGC CGG GCC CCC ACG CCG GAG GAC TTT CCC CGG CAA CTC Tyr Lys Ala Gly Arg Ala Pro Thr Pro Glu Asp Phe Pro Arg Gln Leu	408					
GCC CTC ATC AAG GAG CTG GTG GAC CTC CTG GGG CTG GCG CGC CTC GAG Ala Leu Ile Lys Glu Leu Val Asp Leu Leu Gly Leu Ala Arg Leu Glu	456					
GTC CCG GGC TAC GAG GCG GAC GAC GTC CTG GCC AGC CTG GCC AAG AAG Val Pro Gly Tyr Glu Ala Asp Asp Val Leu Ala Ser Leu Ala Lys Lys	504					
GCG GAA AAG GAG GGC TAC GAG GTC CGC ATC CTC ACC GCC GAC AAA GAC Ala Glu Lys Glu Gly Tyr Glu Val Arg Ile Leu Thr Ala Asp Lys Asp	552					
CTT TAC CAG CTC CTT TCC GAC CGC ATC CAC GTC CTC CAC CCC GAG GGG Leu Tyr Gln Leu Leu Ser Asp Arg Ile His Val Leu His Pro Glu Gly	600					
TAC CTC ATC ACC CCG GCC TGG CTT TGG GAA AAG TAC GGC CTG AGG CCC Tyr Leu Ile Thr Pro Ala Trp Leu Trp Glu Lys Tyr Gly Leu Arg Pro	648					
GAC CAG TGG GCC GAC TAC CGG GCC CTG ACC GGG GAC GAG TCC GAC AAC Asp Gln Trp Ala Asp Tyr Arg Ala Leu Thr Gly Asp Glu Ser Asp Asn	696					
CTT CCC GGG GTC AAG GGC ATC GGG GAG AAG ACG GCG AGG AAG CTT CTG Leu Pro Gly Val Lys Gly Ile Gly Glu Lys Thr Ala Arg Lys Leu Leu	744					

FIG. 1A

GAG Glu	GAG Glu 210	TGG Trp	GGG Gly	AGC Ser	CTG Leu	GAA Glu 215	GCC Ala	CTC Leu	CTC Leu	AAG Lys	AAC Asn 220	CTG Leu	GAC Asp	CGG Arg	CTG Leu	792
AAG Lys 225	CCC Pro	GCC Ala	ATC Ile	CGG Arg	GAG Glu 230	AAG Lys	ATC Ile	CTG Leu	GCC Ala	CAC His 235	ATG Met	GAC Asp	GAT Asp	CTG Leu	AAG Lys 240	840
CTC Leu	TCC Ser	TGG Trp	GAC Asp	CTG Leu 245	GCC Ala	AAG Lys	GTG Val	CGC Arg	ACC Thr 250	GAC Asp	CTG Leu	CCC Pro	CTG Leu	GAG Glu 255	GTG Val	888
GAC Asp	TTC Phe	GCC Ala	AAA Lys 260	AGG Arg	CGG Arg	GAG Glu	CCC Pro	GAC Asp 265	CGG Arg	GAG Glu	AGG Arg	CTT Leu	AGG Arg 270	GCC Ala	TTT Phe	936
CTG Leu	GAG Glu	AGG Arg 275	CTT Leu	GAG Glu	TTT Phe	GGC Gly	AGC Ser 280	CTC Leu	CTC Leu	CAC His	GAG Glu	TTC Phe 285	GGC Glu	CTT Leu	CTG Leu	984
GAA Glu	AGC Ser 290	CCC Pro	AAG Lys	GCC Ala	CTG Leu	GAG Glu 295	GAG Glu	GCC Ala	CCC Pro	TGG Trp	CCC Pro 300	CCG Pro	CCG Pro	GAA Glu	GGG Gly	1032
GCC Ala 305	TTC Phe	GTG Val	GGC Gly	TTT Phe	GTG Val 310	CTT Leu	TCC Ser	CGC Arg	AAG Lys	GAG Glu 315	CCC Pro	ATG Met	TGG Trp	GCC Ala	GAT Asp 320	1080
CTT Leu	CTG Leu	GCC Ala	CTG Leu	GCC Ala 325	GCC Ala	GCC Ala	AGG Arg	GGG Gly	GGC Gly 330	CGG Arg	GTC Val	CAC His	CGG Arg	GCC Ala 335	CCC Pro	1128
GAG Glu	CCT Pro	TAT Tyr	AAA Lys 340	GCC Ala	CTC Leu	AGG Arg	GAC Asp	CTG Leu 345	AAG Lys	GAG Glu	GCG Ala	CGG Arg	GGG Gly 350	CTT Leu	CTC Leu	1176
GCC Ala	AAA Lys	GAC Asp 355	CTG Leu	AGC Ser	GTT Val	CTG Leu	GCC Ala 360	CTG Leu	AGG Arg	GAA Glu	GGC Gly	CTT Leu 365	GGC Gly	CTC Leu	CCG Pro	1224
CCC Pro	GGC Gly 370	GAC Asp	GAC Asp	CCC Pro	ATG Met	CTC Leu 375	CTC Leu	GCC Ala	TAC Tyr	CTC Leu	CTG Leu 380	GAC Asp	CCT Pro	TCC Ser	AAC Asn	1272
ACC Thr 385	ACC Thr	CCC Pro	GAG Glu	GGG Gly	GTG Val 390	GCC Ala	CGG Arg	CGC Arg	TAC Tyr	GGC Gly 395	GGG Gly	GAG Glu	TGG Trp	ACG Thr	GAG Glu 400	1320
GAG Glu	GCG Ala	GGG Gly	GAG Glu	CGG Arg 405	GCC Ala	GCC Ala	CTT Leu	TCC Ser	GAG Glu 410	AGG Arg	CTC Leu	TTC Phe	GCC Ala	AAC Asn 415	CTG Leu	1368
TGG Trp	GGG Gly	AGG Arg	CTT Leu 420	GAG Glu	GGG Gly	GAG Glu	GAG Glu	AGG Arg 425	CTC Leu	CTT Leu	TGG Trp	CTT Leu	TAC Tyr 430	CGG Arg	GAG Glu	1416

FIG. 1B

CTG	ATG	CGC	CGG	GCG	GCC	AAG	ACC	ATC	AAC	TTC	GGG	GTC	CTC	TAC	GGC	2136
Leu	Met	Arg	Arg	Ala	Ala	Lys	Thr	Ile	Asn	Phe	Gly	Val	Leu	Tyr	Gly	
			660					665					670			
ATG	TCG	GCC	CAC	CGC	CTC	TCC	CAG	GAG	CTA	GCC	ATC	CCT	TAC	GAG	GAG	2184
Met	Ser	Ala	His	Arg	Leu	Ser	Gln	Glu	Leu	Ala	Ile	Pro	Tyr	Glu	Glu	
		675					680					685				
GCC	CAG	GCC	TTC	ATT	GAG	CGC	TAC	TTT	CAG	AGC	TTC	CCC	AAG	GTG	CGG	2232
Ala	Gln	Ala	Phe	Ile	Glu	Arg	Tyr	Phe	Gln	Ser	Phe	Pro	Lys	Val	Arg	
	690					695					700					
GCC	TGG	ATT	GAG	AAG	ACC	CTG	GAG	GAG	GGC	AGG	AGG	CGG	GGG	TAC	GTG	2280
Ala	Trp	Ile	Glu	Lys	Thr	Leu	Glu	Glu	Gly	Arg	Arg	Arg	Gly	Tyr	Val	
	705				710				715						720	
GAG	ACC	CTC	TTC	GGC	CGC	CGC	CGC	TAC	GTG	CCA	GAC	CTA	GAG	GCC	CGG	2328
Glu	Thr	Leu	Phe	Gly	Arg	Arg	Arg	Tyr	Val	Pro	Asp	Leu	Glu	Ala	Arg	
				725					730					735		
GTG	AAG	AGC	GTG	CGG	GAG	GCG	GCC	GAG	CGC	ATG	GCC	TTC	AAC	ATG	CCC	2376
Val	Lys	Ser	Val	Arg	Glu	Ala	Ala	Glu	Arg	Met	Ala	Phe	Asn	Met	Pro	
			740					745					750			
GTC	CAG	GGC	ACC	GCC	GCC	GAC	CTC	ATG	AAG	CTG	GCT	ATG	GTG	AAG	CTC	2424
Val	Gln	Gly	Thr	Ala	Ala	Asp	Leu	Met	Lys	Leu	Ala	Met	Val	Lys	Leu	
		755					760					765				
TTC	CCC	AGG	CTG	GAG	GAA	ATG	GGG	GCC	AGG	ATG	CTC	CTT	CAG	GTC	CAC	2472
Phe	Pro	Arg	Leu	Glu	Glu	Met	Gly	Ala	Arg	Met	Leu	Leu	Gln	Val	His	
	770					775					780					
GAC	GAG	CTG	GTC	CTC	GAG	GCC	CCA	AAA	GAG	AGG	GCG	GAG	GCC	GTG	GCC	2520
Asp	Glu	Leu	Val	Leu	Glu	Ala	Pro	Lys	Glu	Arg	Ala	Glu	Ala	Val	Ala	
	785				790				795						800	
CGG	CTG	GCC	AAG	GAG	GTC	ATG	GAG	GGG	GTG	TAT	CCC	CTG	GCC	GTG	CCC	2568
Arg	Leu	Ala	Lys	Glu	Val	Met	Glu	Gly	Val	Tyr	Pro	Leu	Ala	Val	Pro	
			805						810					815		
CTG	GAG	GTG	GAG	GTG	GGG	ATA	GGG	GAG	GAC	TGG	CTC	TCC	GCC	AAG	GAG	2616
Leu	Glu	Val	Glu	Val	Gly	Ile	Gly	Glu	Asp	Trp	Leu	Ser	Ala	Lys	Glu	
			820					825					830			
TGATACCACC																2626

FIG. 1D

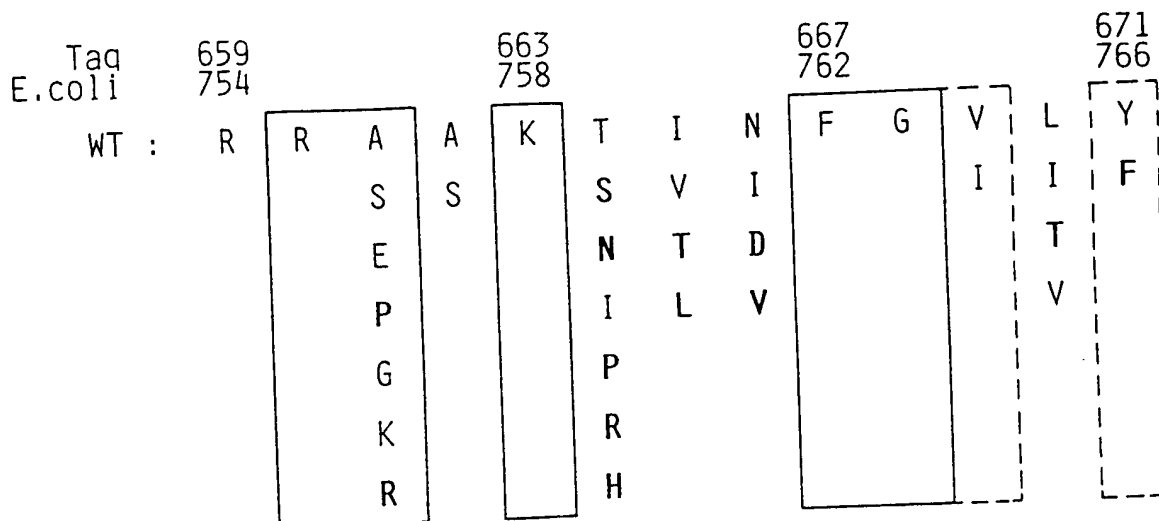


FIG. 2A

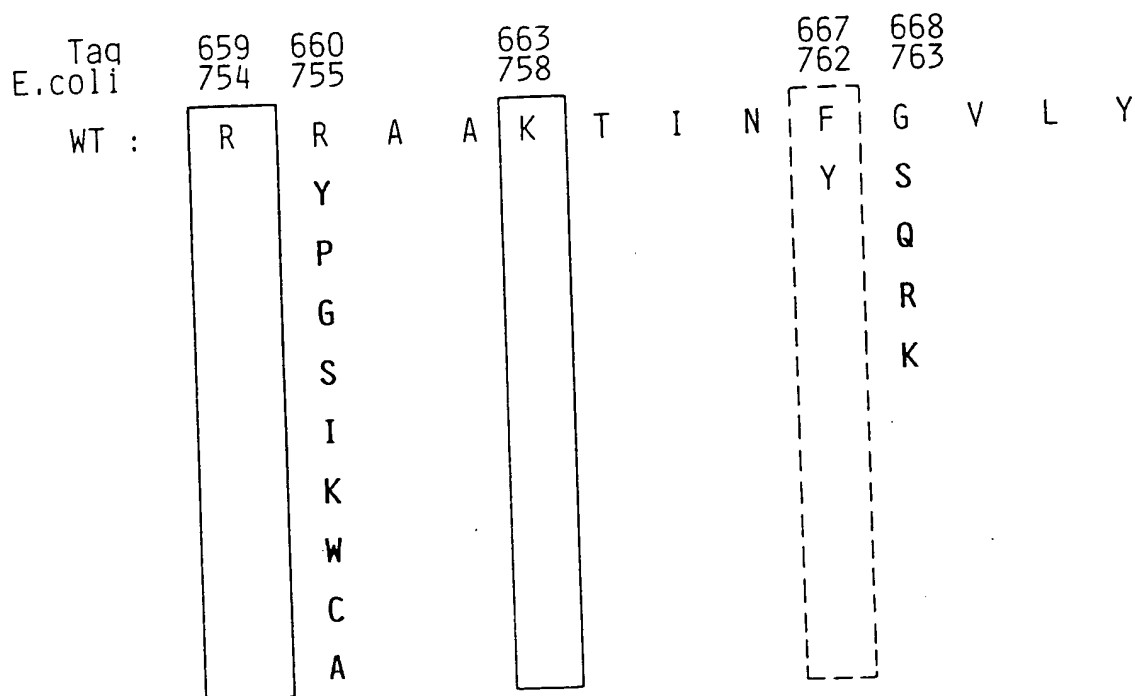


FIG. 2C

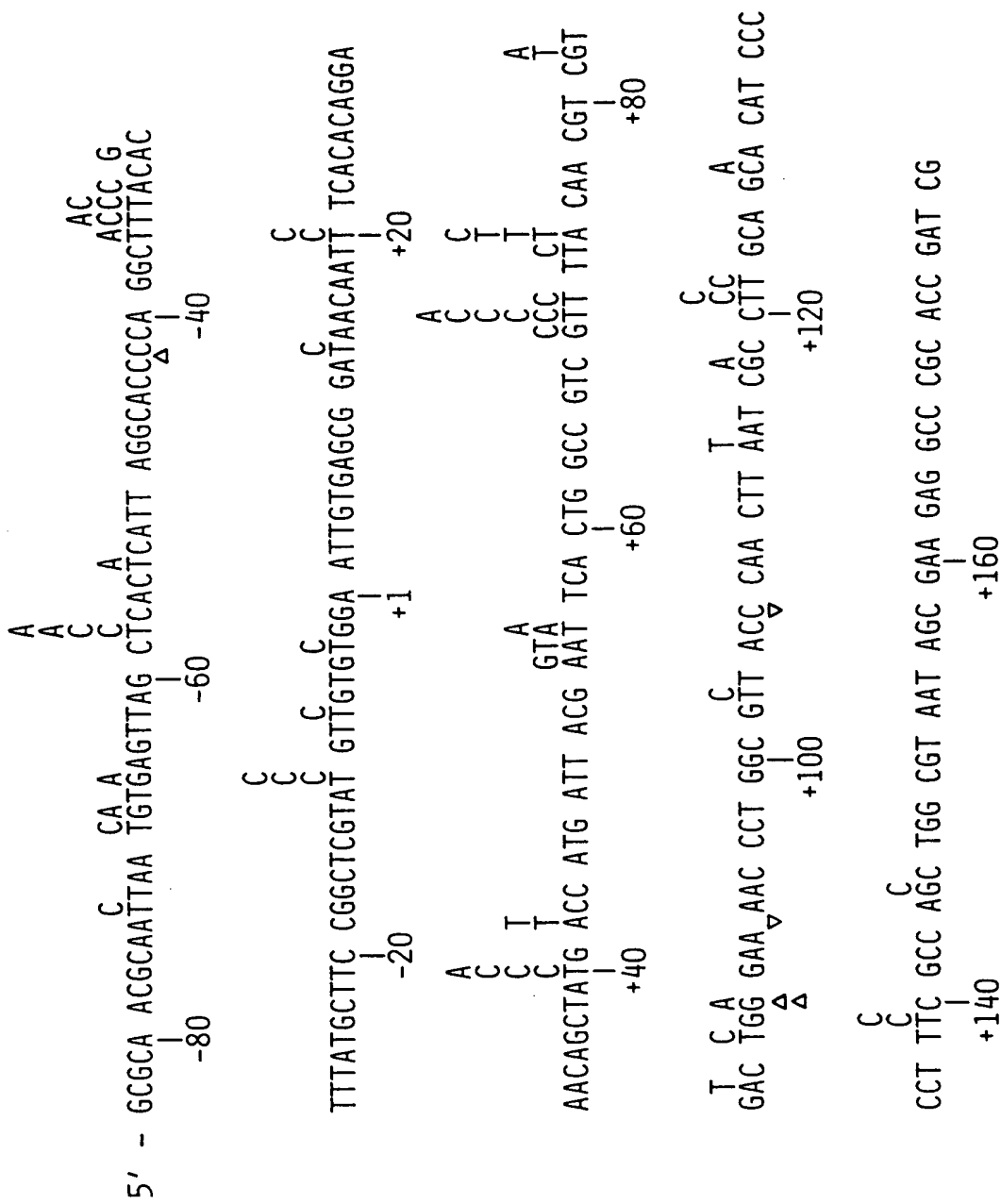


FIG. 3